U. S. Department of Agriculture - Forest Service CENTRAL STATES) FOREST EXPERIMENT STATION Columbus, Ohio

Station Note
No. 17

December 8, 1934

A BLACK WALNUT VOLUME TABLE FOR CONTENTS IN CUBIC FEET

Plantation Black Walnut (Juglans nigra Linn.) Central States Region

B. R. Lexen 1930

Entire stem less bark Cubic Feet

Dia	meter	Total Height in Feet									Basis:
breast		10 20 30 40 50 60 70 80 90						No. of			
high		Volume in cubic feet									Trees
Inches		:			! !	i					
(o.b.)	(i.b.)			ļ.,	Ì	!	i I		i I		
1	0.8	.03	•05	.07	<u>l</u> .	Ì	! i	İ			14
2	1.6	.10	.18	.26	.34	.42			ļ	!	13
3	2.4	.21	•38	.54	.70	.86	1.02		į	i ·	20
4	3.3	. 36	•65	.91	1.19	1.47	1.77	2.0			20
_				, , ,			0				
5	4.1	.55	.98	1.39	1.83	2.28	2.70	3.1	3.5		24
6	5.0	.79	1.40	2.00	2.62	1	3.96	4.6	5.1		31
7	5.9	1.06	1.89	2.70	3.58	1	5 4	6.2	6.9		35
8	6.7		2.42	3.50	4.65	•	7.0	8.0	9.0	9.7	35
9	7.6	:	3.05	4.45	5.90	7.40	8.8	10.1	11.3	12.3	25
10	8.5		3.75	5.50	7.30	9.1	10.9	12.6	14.0	15.5	29
11	9.4			6.55		-4	13.3	15.4	17.2	18.8	29
12	10.3			ľ	1	13.0	15.9	18.3	20.2	22.0	. 29
13	11.2			9.1		15.4	18.7	21.3	24.0	26.0	27
14	12.0				ì	17.8	21.1	24.5	27.3	29.6	16
15	12.9			11.9		20.0	24.2	28.0	31	34	16
16	13.8		 :	13.7	18.3	22.8	27.5	31.5	35	38	13
17	14.7				į	25.8	30.8	35.5	40	43	10
18	15.6			ļ	i	28.6	34.0	39.5	44	48	6
19	16.5			Ì	į	31.8	38.2	44.2	50	55	4
20	17.3			İ		į	42	50	55	60	2
21	18.2		<u> </u>			!	46	54	60	65	î
22	19.1			ľ			51	60	66	72	ī
23	19.9					i İ	55	65	72	79	_
Basis:	No.			1							
of Trees		4	26	50	49	64	96	86	24	1	400

Based on trees measured by Central States Forest Experiment Station in Kentucky, Indiana, Illinois and Iowa, under the supervision of L. F. Kellogg. Stump height 1.0 ft. Volume measured by planimeter. Aggregate deviation: chart 0.49% low. Average percentage deviation 5.1%. Block indicates extent of basic data. Prepared by the alinement chart method in the Washington Office.

This is the first of five volume tables for plantation black walnut, prepared from the study of walnut throughout the Central States.